

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

REC'D 12 MAR 2003  
WIPO PCT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>WO 33411</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/ IB 02/ 03029</b>	International filing date (day/month/year) <b>05/08/2002</b>	(Earliest) Priority Date (day/month/year)
Applicant <b>NOKIA CORPORATION</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the International application in the language in which it was filed, unless otherwise indicated under this item.
  - the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :
  - contained in the international application in written form.
  - filed together with the International application in computer readable form.
  - furnished subsequently to this Authority in written form.
  - furnished subsequently to this Authority in computer readable form.
  - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the International application as filed has been furnished.
  - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2.  Certain claims were found unsearchable (See Box I).

3.  Unity of invention is lacking (see Box II).

## 4. With regard to the title,

- the text is approved as submitted by the applicant.
- the text has been established by this Authority to read as follows:

**TRANSMISSION DIVERSITY WITH TWO CROSS-POLARISED ANTENNAS ARRAYS**

## 5. With regard to the abstract,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this International search report, submit comments to this Authority.

## 6. The figure of the drawings to be published with the abstract is Figure No.

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.

5

None of the figures.

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## INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 02/03029

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04B7/10 H04B7/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>IBSEN M ET AL: "ALL-FIBRE DFB LASER WDM TRANSMITTERS WITH INTEGRATED PUMP REDUNDANCY"          25TH EUROPEAN CONFERENCE ON OPTICAL COMMUNICATION. (ECOC'99). NICE, FRANCE, SEPT. 27 - 30, 1999. REGULAR AND INVITED PAPERS, EUROPEAN CONFERENCE ON OPTICAL COMMUNICATION (ECOC), PARIS: SEE, FR, vol. I OF II, 26 September 1999 (1999-09-26), pages I-74-I-75, XP001035322 ISBN: 2-912328-12-8 abstract paragraph '0III!'</p> <p style="text-align: center;">-/-</p>	1-8

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*V\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*A\* document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the International search report
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7 March 2003

13/03/2003

Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016
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Authorized officer

Lustrini, D

## INTERNATIONAL SEARCH REPORT

Internat. Application No  
PCT/IB 02/03029

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HAMALAINEN J ET AL: "FEEDBACK SCHEMES FOR DD WCDMA SYSTEMS IN MULTIPATH ENVIRONMENTS" VTC 2001 SPRING. IEEE VTS 53RD. VEHICULAR TECHNOLOGY CONFERENCE. RHODES, GREECE, MAY 6 - 9, 2001, IEEE VEHICULAR TECHNOLOGY CONFERENCE, NEW YORK, NY: IEEE, US, vol. 1 OF 4. CONF. 53, 6 May 2001 (2001-05-06), pages 238-242, XP001066957 ISBN: 0-7803-6728-6 abstract paragraphs '002.!, '004.!	1-8
A	EP 1 003 297 A (LUCENT TECHNOLOGIES INC) 24 May 2000 (2000-05-24) abstract paragraphs '0005!, '0009!, '0010!	1-8

**INTERNATIONAL SEARCH REPORT**International Application No  
PCT/IB 02/03029

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
EP 1003297	A	24-05-2000	US 6259730 B1	10-07-2001
			BR 9905140 A	10-10-2000
			CN 1253430 A	17-05-2000
			EP 1003297 A2	24-05-2000
			JP 2000151485 A	30-05-2000
			KR 2000035271 A	26-06-2000
			TW 443055 B	23-06-2001
			US 2001019592 A1	06-09-2001